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APPLICATION NO.	ION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/044,747 01/10/2002		Anthony Joseph Cesaroni	33477.242989	- 8407		
826	7590	08/30/2004		EXAMINER		
ALSTON &	BIRD L	LLP	FELTON, AILEEN BAKER			
BANK OF A	MERICA	PLAZA				
101 SOUTH	TRYON	STREET, SUITE 400	ART UNIT	PAPER NUMBER		
CHARLOTT		•	3641			

DATE MAILED: 08/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

								
		Applica	tion No.	Applicant(s)	4			
Office Action Summary			747	CESARONI ET AL.	λ			
			er	Art Unit	\rightarrow			
		Aileen B	. Felton	3641				
Period fo	The MAILING DATE of this commun or Reply	nication appears on t	he cover sheet with the d	orrespondence address				
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN insions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this com- is period for reply specified above is less than thirty (in period for reply is specified above, the maximum is sure to reply within the set or extended period for reply reply received by the Office later than three months led patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no of munication. 30) days, a reply within the statutory period will apply and y will, by statute, cause the a	event, however, may a reply be tirelatutory minimum of thirty (30) day will expire SIX (6) MONTHS from pplication to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status								
1) 🛛	Responsive to communication(s) fil-	ed on 20 May 2004.						
,	• • • • • • • • • • • • • • • • • • • •	2b)⊠ This action is	non-final.					
3)	Since this application is in condition	for allowance excep	ot for formal matters, pro	osecution as to the merits is				
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	Claim(s) 1-4 and 7-35 is/are pendin	g in the application.						
	4a) Of the above claim(s) 21 is/are	withdrawn from cons	ideration.					
5)[Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-4,7-20 and 22-34</u> is/are rejected.							
7)🛛	Claim(s) 35 is/are objected to.							
8)□	Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)[The specification is objected to by the	ne Examiner.						
10)	The drawing(s) filed on is/are	: a) accepted or t	b) objected to by the	Examiner.				
	Applicant may not request that any obje		· · · · · · · · · · · · · · · · · · ·					
	Replacement drawing sheet(s) including	g the correction is requ	ired if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected t	o by the Examiner.	Note the attached Office	Action or form PTO-152.				
Priority (under 35 U.S.C. § 119							
	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have be documents have be of the priority document	een received. een received in Applicati nents have been receive	ion No				
* (See the attached detailed Office action	on for a list of the cel	rtified copies not receive	ed.				
Attachmer	nt(s)							
1) 🛛 Notic	ce of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) 🔲 Notic 3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date 5/20/2004.		Paper No(s)/Mail D					

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1, 7, and 23-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims are indefinite since claim 1 recites that the pellets are arranged in an array and claim 24 recites that they are arranged in an array of predetermined arrangement. It is not clear what Applicant means by arranged in claim 1, if not arranged in some predetermined arrangement.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-4, 7-20, and 22-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glass (3,811,380) in view of Schoyer et al (4,950,341).

Glass discloses a plurality of pellets of explosive that is imbedded in a matrix (fig. 10 and col. 4, lines 20-25). The matrix may be a rubber material or epoxy resin. The resin is cast into segments in a mold with the pellets molded within the mold. The resin is in liquid form when it is poured into the mold (col. 8, lines 3-12). The mold functions

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to hold the pellets in place while the binder is poured over top. The particular fuel, oxidizer, and binder are not disclosed.

Schoyer et al teaches a composition for use in a rocket that comprises hydrazinium nitroformate, aluminum, and an energetic binder such a GAP or BAMO.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the fuel, oxidizer and binders as taught by Schoyer since Glass suggests that any fuels, oxidizers and binders can be used. It is irrelevant that the composition of Schoyer is a mixed composition since the teaching is merely to show that the particular fuel, oxidizer and binder are known in the rocket propellant art and one would be motivated to use that teaching with a structure as taught by Glass. Also, the claims are of comprising scope which does allows the pellet to contain both fuels and oxidizers as well as any other ingredients.

5. Claims 1-4, 7-20, 22, and 29-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hunter et al (3,522,334) in view of Schoyer et al (4,950,341).

Hunter et al discloses an oxidizer pellet that is coated with aluminum and then a wax coating (col. 3, lines 60-75). The pellets can be compounded by mixing and then shape by molding into any suitable grain design (col.5, lines 45-55). The finished propellant is a solid and thus the binder acts to hold the pellets together. The mold functions to hold the pellets in place while the binder is poured over top. The particular fuel, oxidizer, and binder are not disclosed.

Schoyer et al teaches a composition for use in a rocket that comprises hydrazinium nitroformate, aluminum, and an energetic binder such a GAP or BAMO.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the fuel, oxidizer and binders as taught by Schoyer since Glass suggests that any fuels, oxidizers and binders can be used. It is irrelevant that the composition of Schoyer is a mixed composition since the teaching is merely to show that the particular fuel, oxidizer and binder are known in the rocket propellant art and one would be motivated to use that teaching with a structure as taught by Glass. Also, the claims are of comprising scope which does allows the pellet to contain both fuels and oxidizers as well as any other ingredients.

Allowable Subject Matter

6. Claim 35 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 1-4 and 7-31 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aileen B. Felton whose telephone number is 703.306.5751. The examiner can normally be reached on Monday-Friday 6:30-4:00, except alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 703.306.4198. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AILEEN FELTON PRIMARY EXAMINER

aileen Felton